

ABSTRACT OF THE DISCLOSURE

A microstructured optical fibre has a core region with a material having a refractive index n_{co} and a microstructured region surrounding the core region with a background material having a refractive index n_m which is lower than the refractive index n_{co} . The microstructured region has a plurality of microstructures having a refractive index different from the refractive index n_m , wherein the distance $\Delta\phi$ between the centers of any couple of adjacent microstructures is at least equal to about λ_p and not higher than about $1.5\lambda_p$, wherein λ_p is the spatial variation length of the electric field intensity in the microstructured region.